1. Record Nr. UNINA9910145962103321

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Titolo	Practical system reliability / / Eric Bauer, Xuemei Zhang, Douglas A. Kimber
Pubbl/distr/stampa	Piscataway, New Jersey : , : IEEE Press, , c2009 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2009]
ISBN	1-282-11379-8 9786612113796 0-470-45540-3 0-470-45538-1
Descrizione fisica	1 online resource (303 p.)
Disciplina	620.00452
Soggetti	Telecommunication systems - Reliability Telecommunication
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 265-277) and index.
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Sommario/riassunto

Learn how to model, predict, and manage system reliability/availability throughout the development life cycle Written by a panel of authors with a wealth of industry experience, the methods and concepts presented here give readers a solid understanding of modeling and managing system and software availability and reliability through the development of real applications and products. The modeling and prediction techniques and tools are customer-focused and data-driven, and are also aligned with industry standards (Telcordia, TL 9000, ISO, etc.). Readers will get a clear understanding about what real-world reliability and availability mean through step-by-step discussions of: . System availability. Conceptual model of reliability and availability. Why availability varies between customers. Modeling availability. Estimating parameters and availability from field data. Estimating input parameters from laboratory data. Estimating input parameters in the architecture/design stage. Prediction accuracy. Connecting the dots This book can be used by system architects, engineers, and developers to better understand and manage the reliability/availability of their products; quality engineers to grasp how software and hardware quality relate to system availability; and engineering students as part of a short course on system availability and software reliability.